



39766-0160D2 Saved March 2 2006.txt

SEQUENCE LISTING

<10> AFAR, DANIEL E.
HUBERT, RENE S.
LEONG, KAHAN
RAITANO, ARTHUR B.
SAFFRAN, DOUGLAS C.
MITCHELL, STEPHEN CHAPPELL

<120> SERPENTINE TRANSMEMBRANE ANTIGENS EXPRESSED IN HUMAN CANCERS AND USES THEREOF

<130> 39766-0160D2

<140> US 10/750,262
<141> 2003-12-31

<150> US 10/011,095
<151> 2001-12-06

<150> US 09/323,873
<151> 1999-06-01

<150> US 60/087,520
<151> 1998-06-01

<150> US 60/091,183
<151> 1998-06-30

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ggagaaattt agaagaagac gattatttgc ataaggacac gggagagacc agcatgctaa 180
aaagacctgt gcttttgcac ttgcacacaa cagcccatgc tgatgaattt gactgccctt 240
cagaacttca gcacacacag gaactctttc cacagtggca cttgccaatt aaaatagctg 300
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caacttccca tcaacaatat ttttataaaa ttccaatcct ggatcatcaac aaagtcttgc 420
caatggtttc catcactctc ttggcattgg tttacctgcc aggtgtgata gcagcaattg 480
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 35 40 45
 Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
 50 55 60
 Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
 65 70 75 80
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
 85 90 95
 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
 100 105 110
 Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
 115 120 125
 Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
 130 135 140
 Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
 145 150 155 160
 Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Ala Val Leu His Ala
 165 170 175
 Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
 180 185 190
 Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
 195 200 205
 Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
 210 215 220
 Val Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser
 225 230 235 240
 Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys
 245 250 255
 Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
 260 265 270
 Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
 275 280 285
 Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
 290 295 300
 Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
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 325 330 335
 Ser Gln Leu

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 <213> Homo sapiens

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

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24

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<220>
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24

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 ataaggacac gggagagacc agcatgctaa aaagacctgt gcttttgcac ttgcacacaa 240
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gagcatatcc	agatgaggta	ggatgggata	aactcttatt	gaaccaatct	tcaccaattt	3240
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<213> Homo sapiens

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ggattactaa	gttttttctt	cgctatggtc	catgttgctt	acagcctctg	cttaccgatg	240
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atgagccttg	gcttactttc	cctcctggca	gtcacttcta	tcccttcagt	gagcaatgct	420
ttaaactgga	gagaattcag	ttttattcag	tctacacttg	gatatgtcgc	tctgtctcata	480
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<211> 173

<212> PRT

<213> Homo sapiens

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			20					25					30		
Ala	Ala	Tyr	Gln	Leu	Tyr	Tyr	Gly	Thr	Lys	Tyr	Arg	Arg	Phe	Pro	Pro
		35					40					45			
Trp	Leu	Glu	Thr	Trp	Leu	Gln	Cys	Arg	Lys	Gln	Leu	Gly	Leu	Leu	Ser
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Phe	Phe	Phe	Ala	Met	Val	His	Val	Ala	Tyr	Ser	Leu	Cys	Leu	Pro	Met
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Arg	Arg	Ser	Glu	Arg	Tyr	Leu	Phe	Leu	Asn	Met	Ala	Tyr	Gln	Gln	Val
			85					90					95		
His	Ala	Asn	Ile	Glu	Asn	Ser	Trp	Asn	Glu	Glu	Glu	Val	Trp	Arg	Ile
		100					105					110			
Glu	Met	Tyr	Ile	Ser	Phe	Gly	Ile	Met	Ser	Leu	Gly	Leu	Leu	Ser	Leu
		115				120					125				
Leu	Ala	Val	Thr	Ser	Ile	Pro	Ser	Val	Ser	Asn	Ala	Leu	Asn	Trp	Arg
	130					135					140				
Glu	Phe	Ser	Phe	Ile	Gln	Ser	Thr	Leu	Gly	Tyr	Val	Ala	Leu	Leu	Ile
145				150					155						160
Ser	Thr	Phe	His	Val	Leu	Ile	Tyr	Gly	Trp	Lys	Arg	Ala			
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 <212> DNA
 <213> Homo sapiens

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	attactttgc	tctccctagt	ataccttgca	ggctctctgg	cagctgctta	tcaactttat	180
	tacggcacca	agtataggag	atttccacct	tggttgga	cctgggtaca	gtgtagaaaa	240
	cagcttgat	tactaagttg	tttcttcgct	atgggtccatg	ttgcctacag	cctctgctta	300
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<210> 10
 <211> 183
 <212> DNA
 <213> Homo sapiens

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	ttt						183

<210> 11
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 <212> DNA
 <213> Homo sapiens

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	aatgcagtc	actggagaga	gttccgattt	gtccagtc	aactgggtta	tttgaccctg	180
	atcttgtgta	cagccacac	cctgggtgtac	gggtggga	gattcctcag	cccttcaaat	240
	ctcagatggt	atcttcctgc	agcctacgtg	ttagggctta	tcattccttg	cactgtgctg	300
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	ggctgggaaa	ggaactcaaa	acactagaaa	aagcattgaa	tggaatca	atatttaaaa	420
	caaagttcaa	tttagctgga	aaaaaaaa				448

<210> 12
 <211> 401
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 <213> Homo sapiens

<220>

<221> misc_feature

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gagcacactn cacacgtca cctacggctg gaccgcgcc	ttcgaggaga gccgctacaa	300
gttctacctn cctccacct tcacgntcac gctgctggtg	ccctgcgttc gttcatcctg	360
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<210> 13

<211> 23

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<223> RT-PCR primer AI139607.2

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<210> 15

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<223> RT-PCR primer R80991.1

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<210> 16

<211> 24

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<212> DNA

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<223> RT-PCR primer 98P4B6.1

<400> 17

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24

<210> 18

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<212> DNA

<213> Artificial Sequence

<220>

<223> RT-PCR primer 98P4B6.2

<400> 18

tttgaggaga cttcatctca ctgg

24

<210> 19

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> STEAP-1 peptide

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Lys Ile Pro Ile Leu Val
20

<210> 20

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> STEAP-1 peptide

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1 5 10 15

Gln Gln Asn Lys Glu Asp Ala Trp Ile Glu His Asp Val Trp Arg Met
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Glu Ile

<210> 21

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> STEAP-1 PEPTIDE

<400> 21

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1 5 10 15

<210> 22
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 <213> Artificial Sequence

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 <223> cDNA Synthesis primer

 <400> 22
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 <212> DNA
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 <220>
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 <400> 23
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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA Adaptor 2

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 <213> Artificial Sequence

 <220>
 <223> PCR primer 1

 <400> 25
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 <210> 26
 <211> 22
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 <213> Artificial Sequence

 <220>
 <223> Nested primer (NP) 1

 <400> 26
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 <210> 27
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 <212> DNA
 <213> Artificial Sequence


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<223> RT-PCR primer 1B

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<220>
<223> Primer

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<210> 31
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<213> Artificial Sequence

<220>
<223> Primer

<400> 31
agccacacgc agtcattgt agaagg                                26

<210> 32
<211> 15
<212> PRT
<213> Homo sapiens

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 1          5          10          15

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<210> 33
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 <212> PRT
 <213> Homo sapiens

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 Ile Thr Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe
 35 40 45
 Arg Phe Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr
 50 55 60
 Ala His Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn
 65 70 75 80
 Leu Arg Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro
 85 90 95
 Cys Thr Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp
 100 105 110
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<210> 34
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 <213> Homo sapiens

<220>
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 <222> 15, 74, 105, 122
 <223> Xaa = Any Amino Acid

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 35 40 45
 Ser Leu Pro Ser Ile Ala Asn Ser Leu Asn Trp Arg Glu Phe Ser Phe
 50 55 60
 Val Gln Ser Ser Leu Gly Phe Val Ala Xaa Val Leu Ser Thr Leu His
 65 70 75 80
 Thr Leu Thr Tyr Gly Trp Thr Arg Ala Phe Glu Glu Ser Arg Tyr Lys
 85 90 95
 Phe Tyr Leu Pro Pro Thr Phe Thr Xaa Thr Leu Leu Val Pro Cys Val
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